

1. A telecommunications switching node comprising:  
a plurality of input/output (I/O) ports configured to receive and transmit telecommunications signals;  
5 a switching core comprising a plurality of switching networks; and  
a backplane connecting each of said plurality of I/O ports to each of said switching networks in said switching core to effect a non-blocking path for each communications signal from any of said I/O ports to any of said I/O ports via one of said switching networks in said switching core.
2. The telecommunications switching system of claim 1 wherein said switching system  
10 effects a non-blocking path via all of said switching networks in said switching core.
3. The telecommunications switching system of claim 1 wherein said switching core comprises a pair of switching networks.
4. The telecommunications switching system of claim 1 wherein said switching core comprises two pairs of switching networks.
- 15 5. The telecommunications switching system of claim 4 wherein one or more of said plurality of I/O ports includes a switching network to effect connection through said backplane to both pairs of switching networks.
6. The telecommunications switching system of claim 5 wherein all of said plurality of I/O  
20 ports includes a switching network to effect connection through said backplane to both pairs of switching networks.